

# Morphometry Analysis Report

## Analysis Information

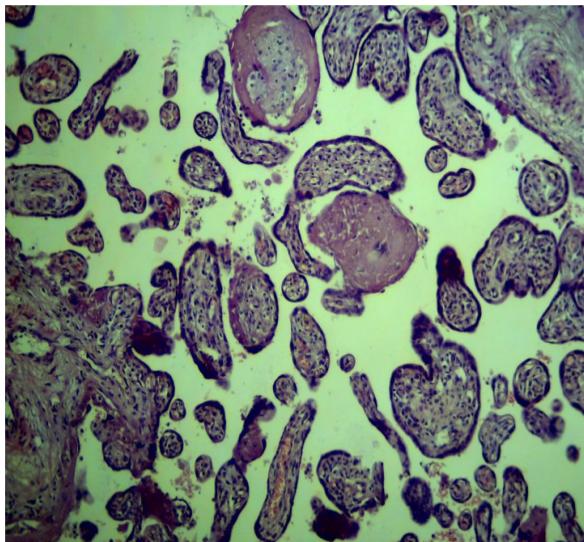
Sample ID:	N/A
Image File:	2025-12-26 00.02.58.jpg
Analysis Date:	2025-12-26 00:05:44
Total Cells:	84
Pixel Size:	1.0 $\mu\text{m}$
Segmentation Model:	cyto3
Preprocessing:	brightfield_pipeline, clahe(clip=2.0), bilateral(d=5)

## Summary Statistics

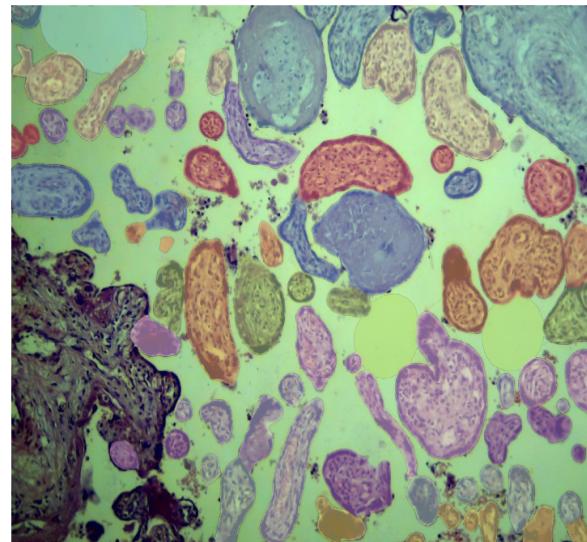
Metric	Mean	Std	Min	Max	Median
Area ( $\text{px}^2$ )	4951.02	6195.47	329.00	37784.00	2596.50
Perimeter (px)	256.03	155.74	65.11	830.40	208.70
Circularity	0.77	0.14	0.31	0.98	0.78
Eccentricity	0.70	0.17	0.29	0.99	0.72
Solidity	0.94	0.06	0.70	0.99	0.96
Aspect Ratio	1.65	0.72	1.05	5.97	1.45

## Segmentation Results

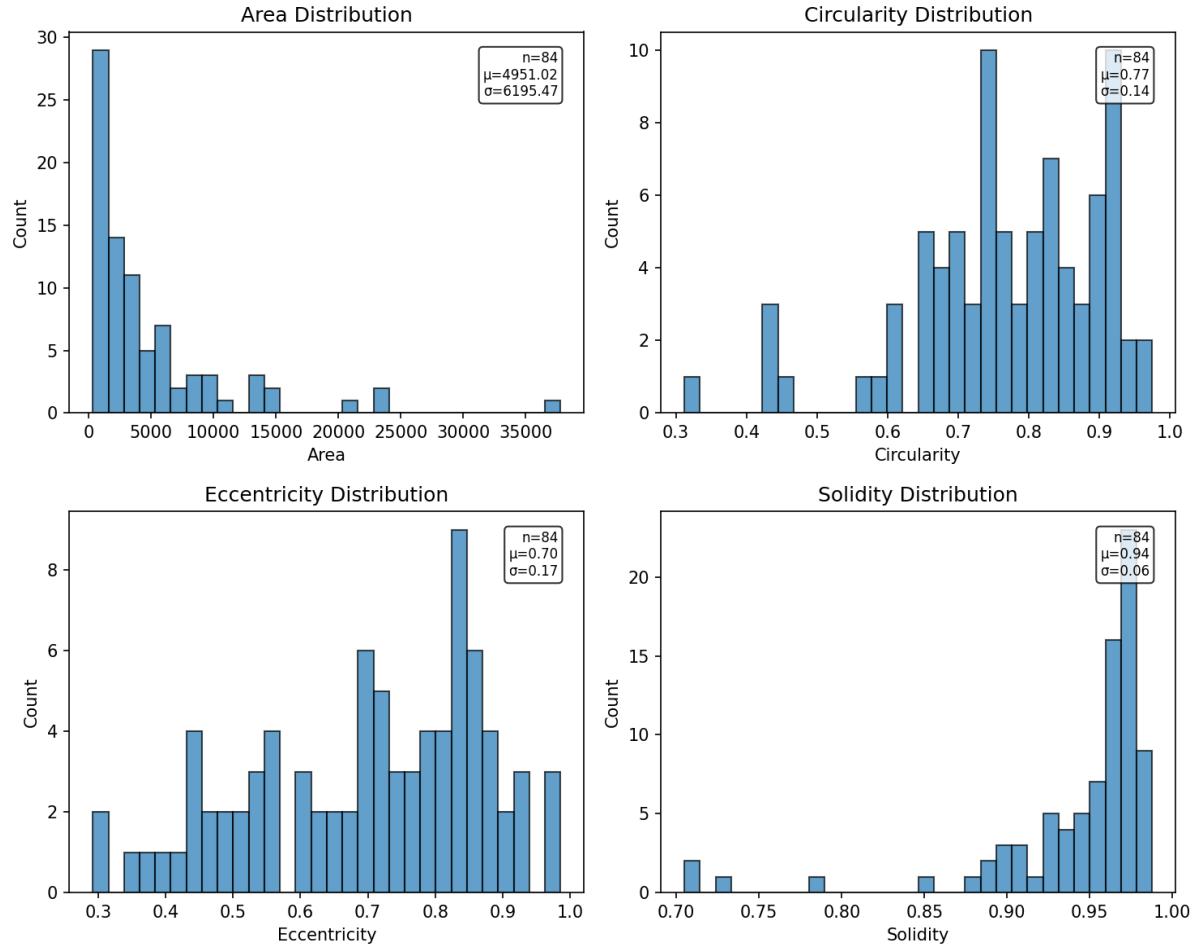
Original Image



Segmentation (84 cells)



# Distribution Analysis



## Individual Cell Measurements

cell_id	area	perimeter	circularity	eccentricity	solidity
1.000	1586.000	162.083	0.759	0.790	0.973
2.000	14022.000	521.540	0.648	0.871	0.939
3.000	23914.000	585.144	0.878	0.557	0.987
4.000	1431.000	163.095	0.676	0.699	0.943
5.000	7703.000	399.055	0.608	0.818	0.881
6.000	37784.000	830.399	0.689	0.722	0.970
7.000	3670.000	262.007	0.672	0.723	0.897
8.000	8453.000	361.907	0.811	0.528	0.957
9.000	1049.000	152.468	0.567	0.745	0.789
10.000	502.000	95.255	0.695	0.848	0.924
11.000	13550.000	502.316	0.675	0.835	0.925
12.000	5465.000	399.772	0.430	0.970	0.855
13.000	2171.000	181.782	0.826	0.778	0.966
14.000	6121.000	301.078	0.849	0.762	0.984
15.000	1021.000	125.012	0.821	0.777	0.960
16.000	6516.000	435.404	0.432	0.918	0.713
17.000	1389.000	136.468	0.937	0.471	0.982
18.000	896.000	116.326	0.832	0.563	0.947
19.000	1284.000	136.125	0.871	0.605	0.964
20.000	1905.000	162.610	0.905	0.626	0.981
21.000	650.000	105.841	0.729	0.821	0.890
22.000	1490.000	142.953	0.916	0.482	0.977
23.000	723.000	99.497	0.918	0.458	0.968
24.000	931.000	125.497	0.743	0.802	0.971
25.000	13709.000	532.174	0.608	0.907	0.889
26.000	1368.000	136.711	0.920	0.292	0.974
27.000	4774.000	284.593	0.741	0.827	0.972
28.000	6023.000	289.179	0.905	0.451	0.988
29.000	3240.000	246.208	0.672	0.886	0.905
30.000	9776.000	398.551	0.773	0.852	0.987
31.000	2359.000	188.853	0.831	0.804	0.970
32.000	3193.000	241.238	0.689	0.548	0.896
33.000	20483.000	575.512	0.777	0.682	0.956

34.000	4896.000	381.304	0.423	0.921	0.705
35.000	2382.000	207.723	0.694	0.626	0.910
36.000	14504.000	473.730	0.812	0.648	0.963
37.000	3953.000	257.439	0.750	0.845	0.970
38.000	2048.000	181.439	0.782	0.838	0.970
39.000	831.000	111.326	0.843	0.711	0.963
40.000	413.000	75.598	0.908	0.640	0.960
41.000	14198.000	539.061	0.614	0.921	0.948
42.000	6955.000	348.978	0.718	0.859	0.957
43.000	9722.000	392.848	0.792	0.776	0.976
44.000	4107.000	281.279	0.652	0.847	0.932
45.000	1728.000	154.125	0.914	0.436	0.978
46.000	5732.000	315.309	0.725	0.684	0.940
47.000	2636.000	209.681	0.753	0.862	0.958
48.000	10274.000	393.362	0.834	0.537	0.965
49.000	8840.000	359.605	0.859	0.502	0.967
50.000	5920.000	312.877	0.760	0.844	0.974
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